Web-Enabled Navy Architecture

TF Web

13 November 2002

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Task Force Web

Agenda

- WEN Rationale
- Distributed Navy Enterprise Web
- What do we mean by Services?
- N-Tier Architecture
- WEN Architecture Scope
- Architecture Components and Interfaces
- TFW Pilot Software
- Interface Standards

Web Enabled Navy Rationale

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- What does the WEN do for Navy users?
  - Aggregation and categorization of content
  - Customizable for a users roles and responsibilities
  - Personalizable by a user to their work needs
  - Access to common tools and information
- What does the WEN do for a Navy developer?
  - Common look and feel support
  - Standard services for presentation and rendering
  - Access to aggregated services
  - Common identity authentication support

Distributed Navy Enterprise Web

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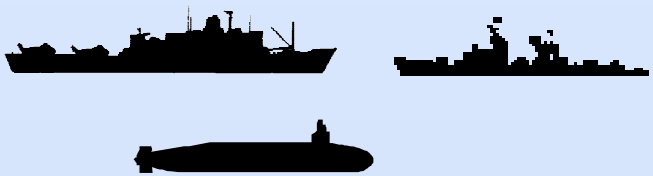


Afloat Infrastructure Locations
- approx. 300 ships

Ashore Infrastructure Locations

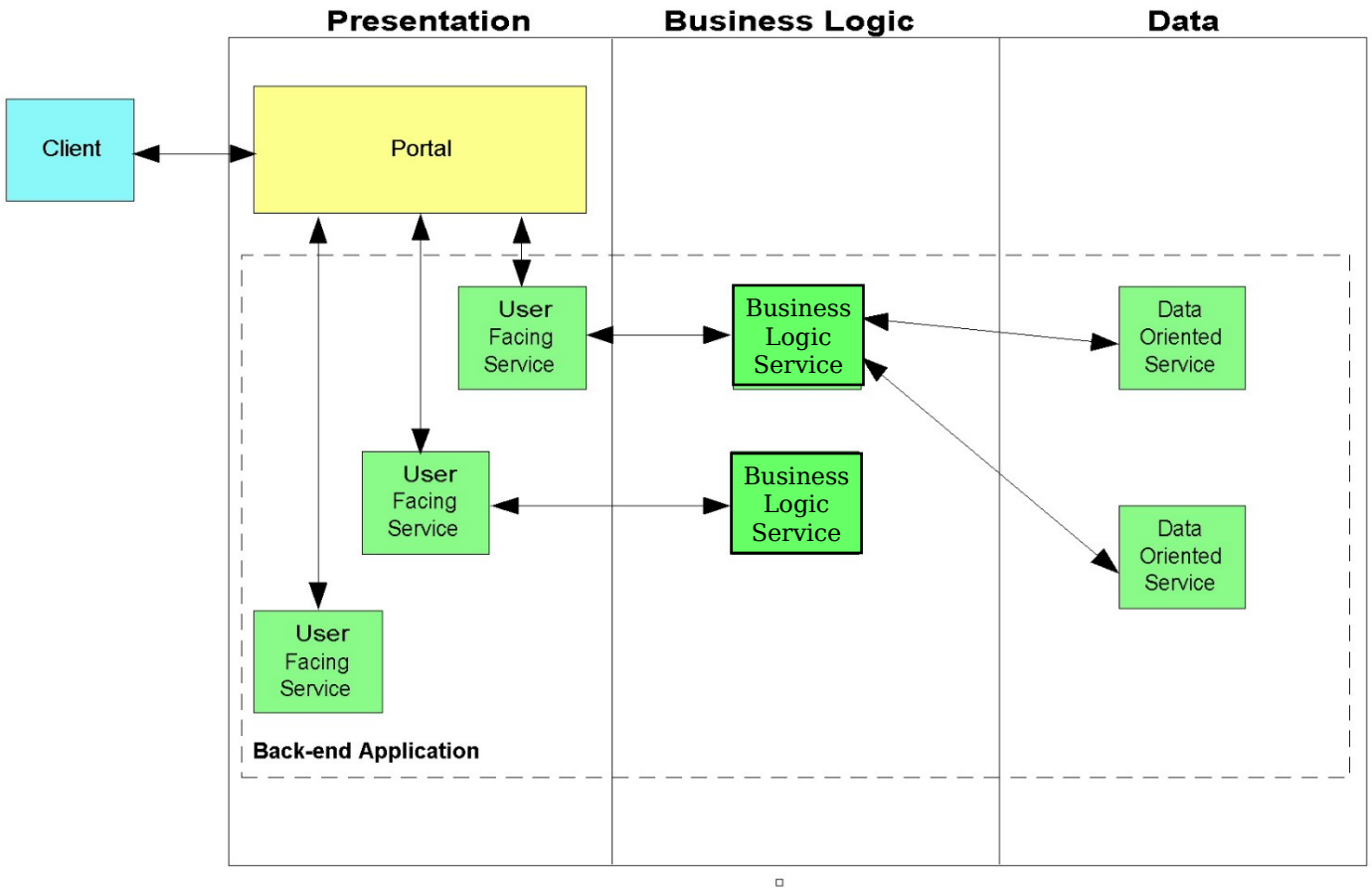
8-12 operating centers across
- CONUS (NMCI)
- OCONUS (BLII)
- Fleet

Worldwide Network Infrastructure

What is a Service?

- **A *Service* is a software component that is registered and provides access to information or functionality**
  - ***User Facing Service (UFS)* implements presentation layer of application, such as portlet or data display**
  - ***Data Oriented Service (DOS)* implements business logic or data access service, normally outputs XML**

3-Tier Architecture



WEN Architecture Scope

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Web Users & Clients

browser client (portal user)

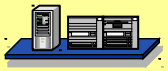
data client (software process)

Navy Enterprise Web Location Infrastructure

Resources & Content Providers

structured data

unstructured data



applications

web services

Provided Interface

Location Infrastructure – Components & Interfaces

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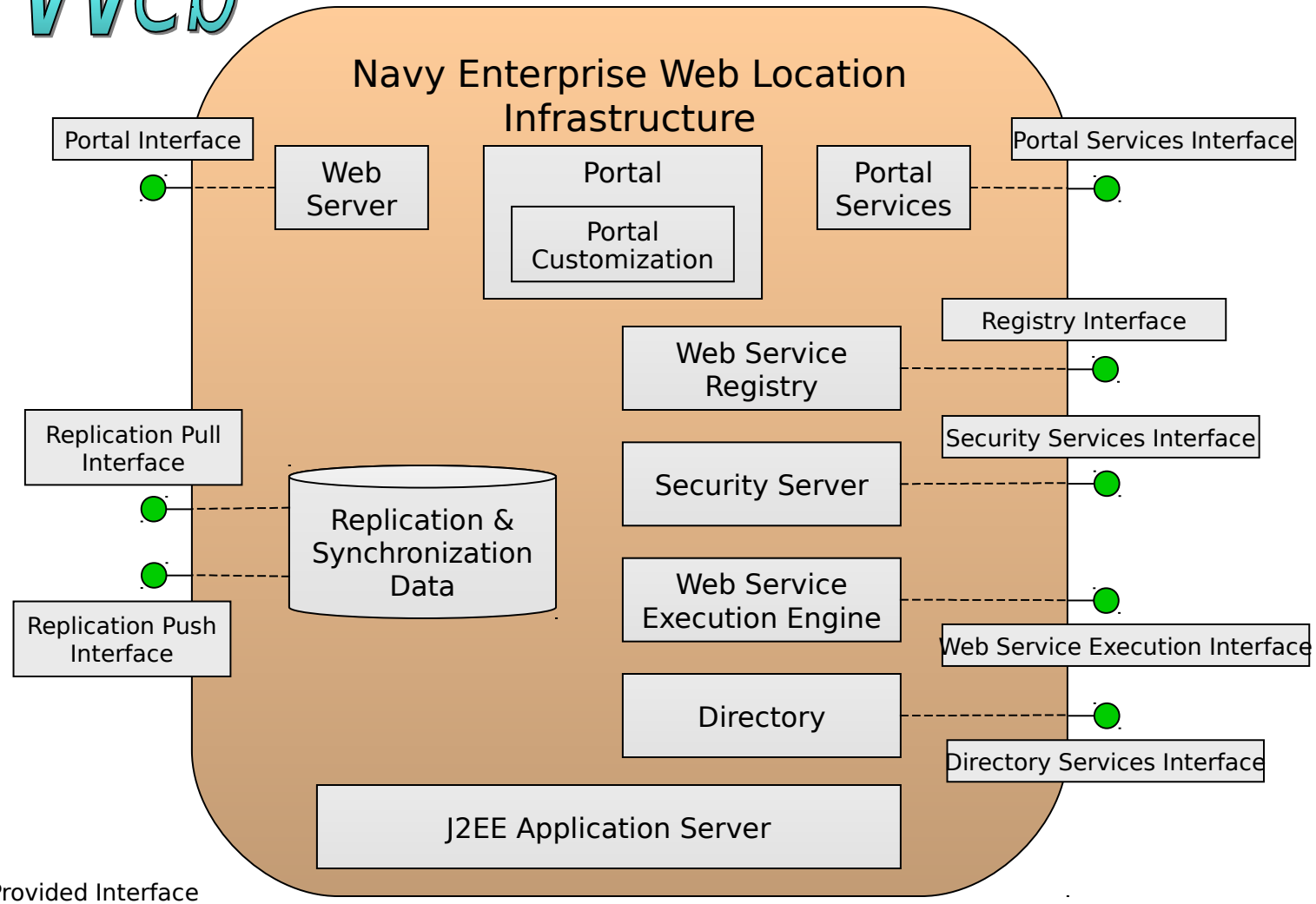

NEP Pilot Software Components

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- **Web Server: MS IIS Version 5.X**
- **Single Sign-on: Oblix NetPoint 6.0**
- **Enterprise Directory: MS Active Directory**
- **J2EE Application Server: Bea Weblogic Express 7.0**
- **Portal Connector: PC/WSEE 2.0**
- **Service Registry: Registry 1.4**
- **Common Portal Services: PC/WSEE 2.0**
- **Portal: CA Cleverpath 4.0.1, SQL Server 2000, PCCD 3.0**

Important Interfaces – Portal Scenario

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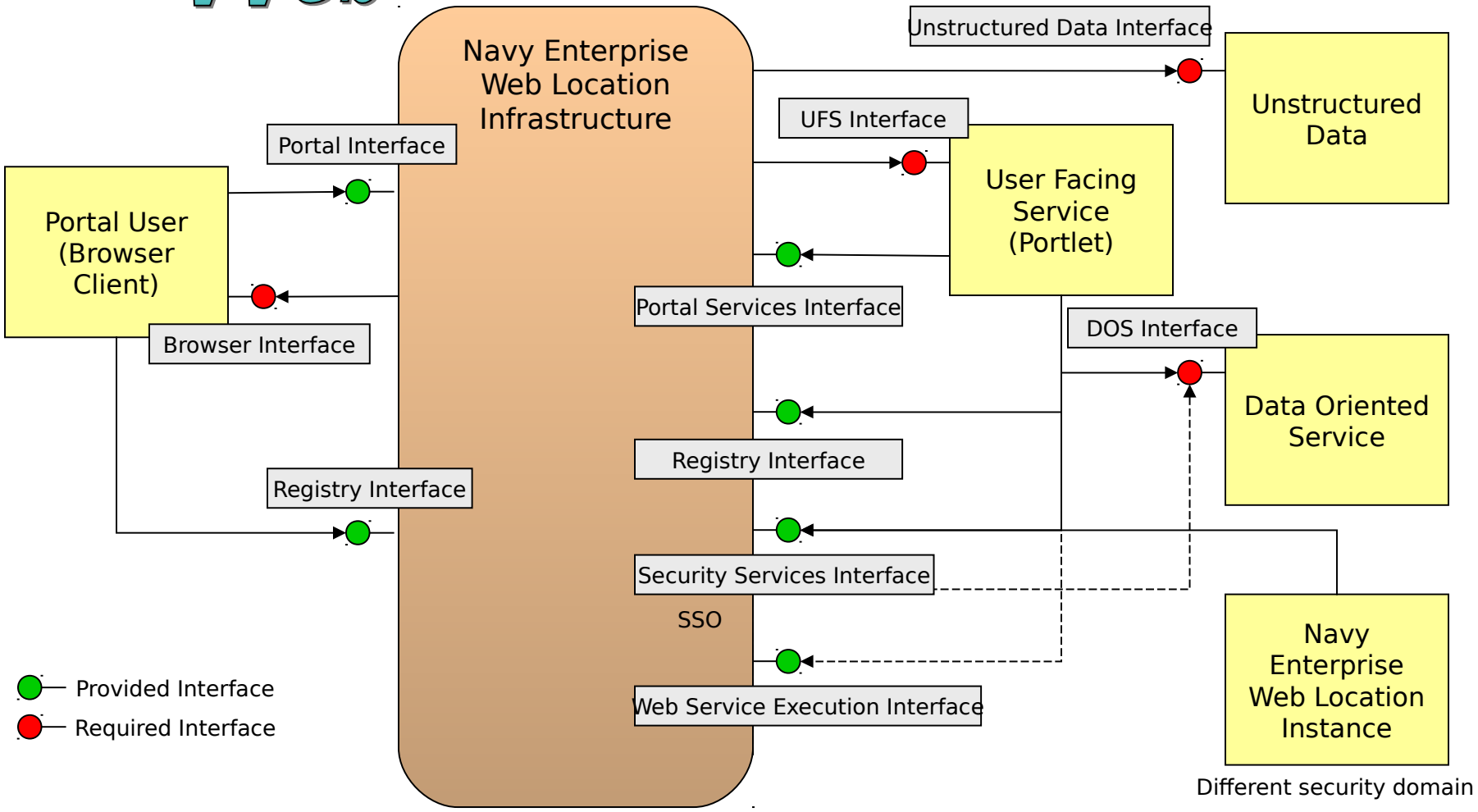

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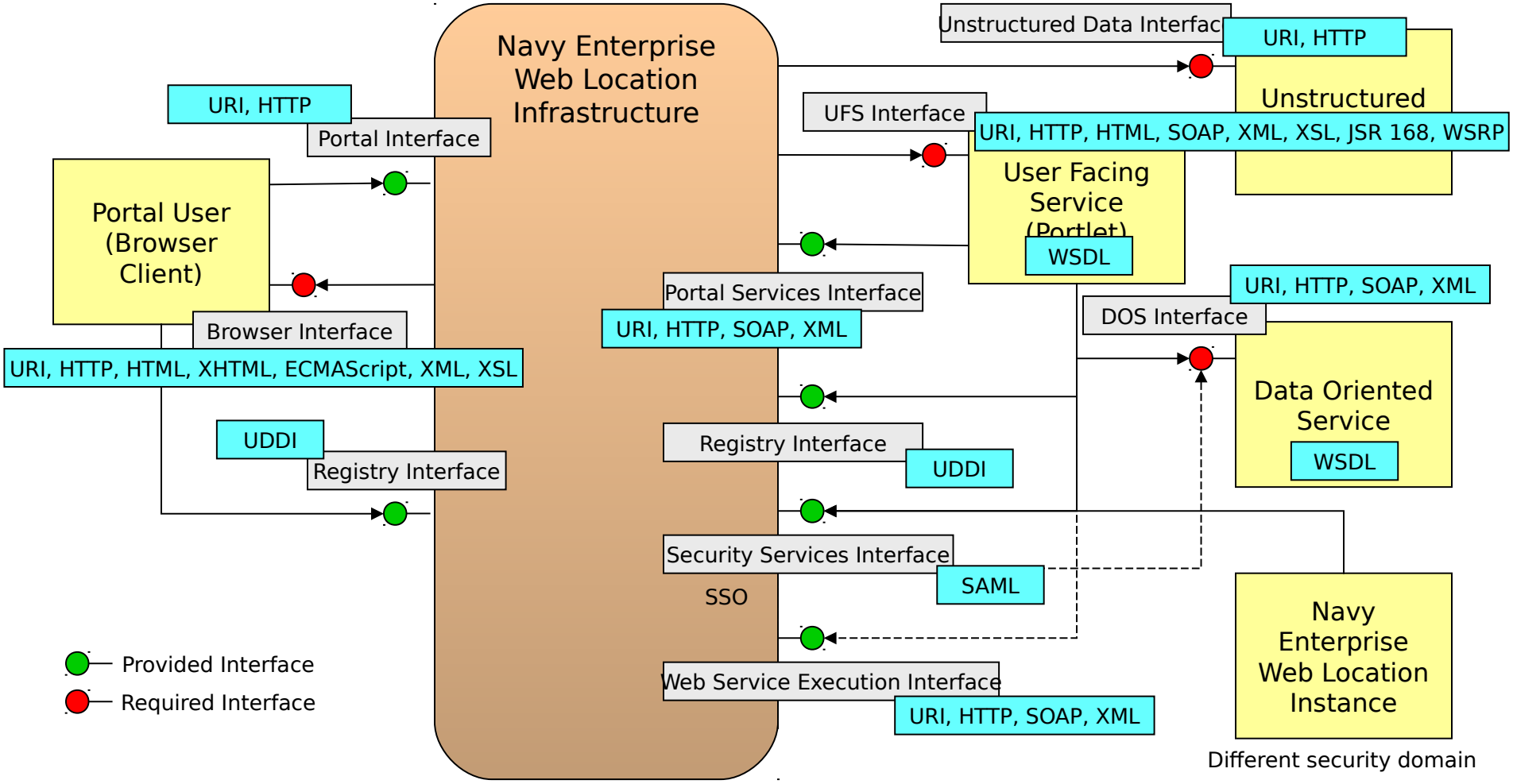

Important Interfaces – Web Service Scenario

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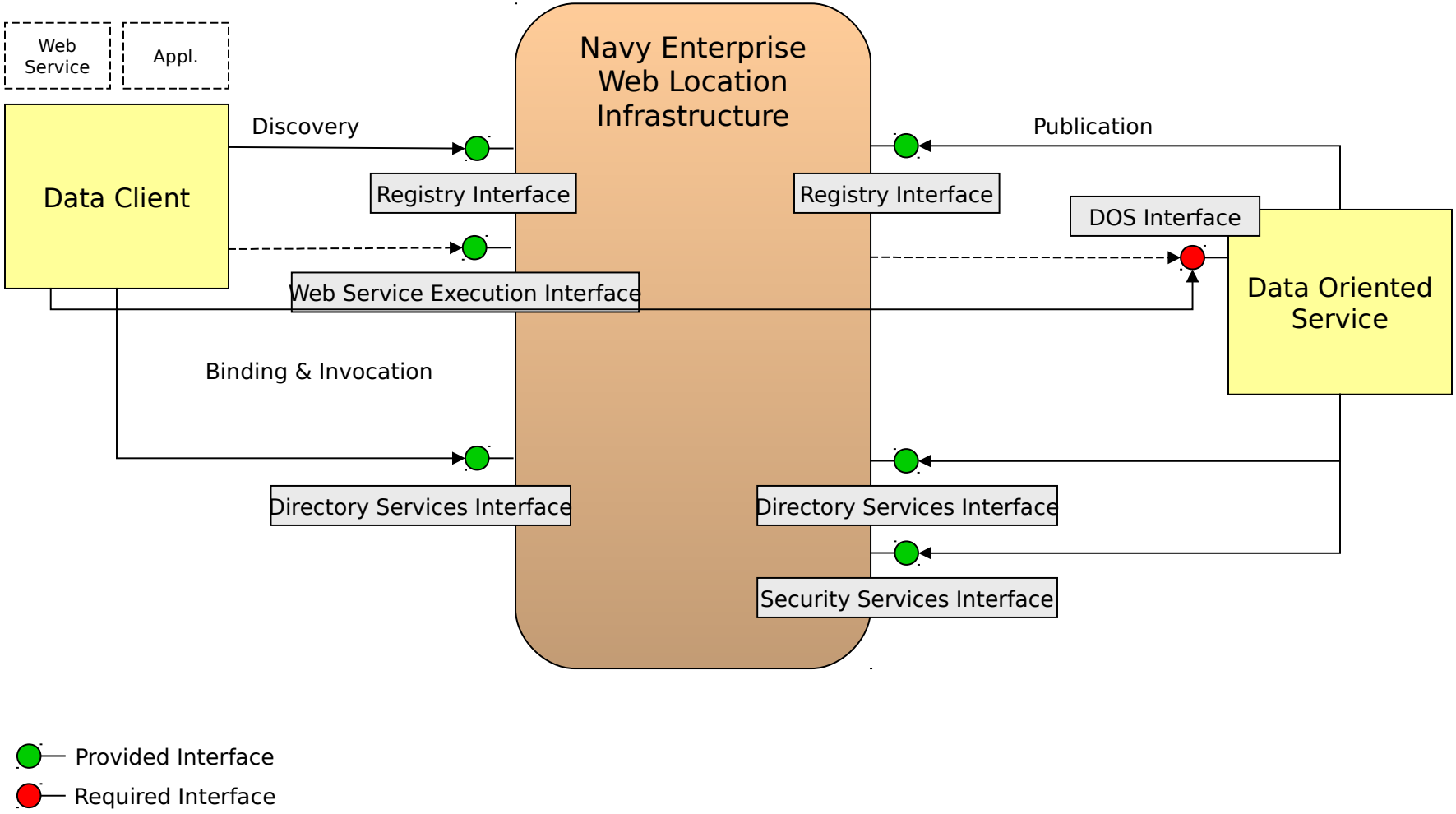

Important Interface Standards – Web Service Scenario

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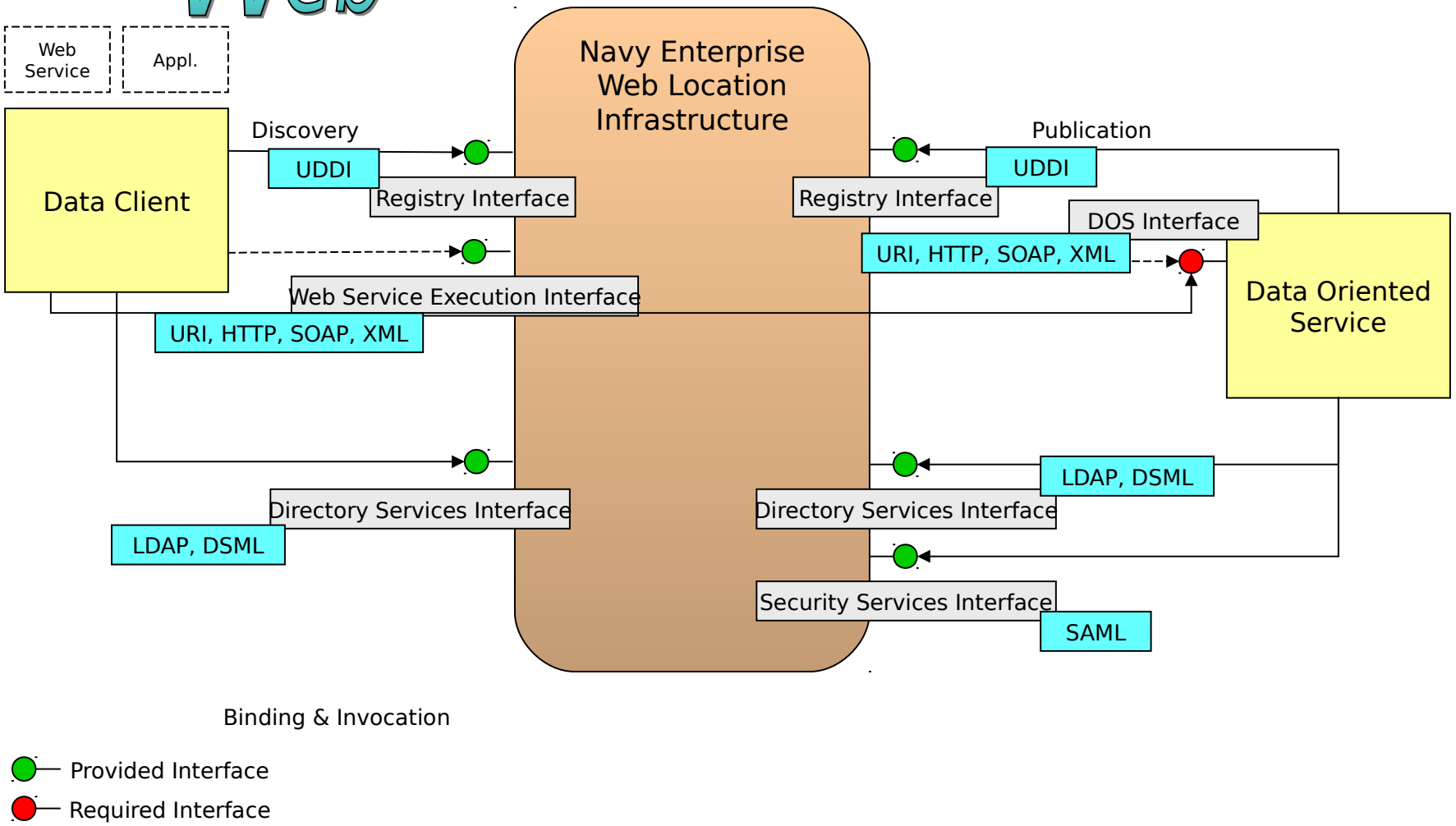

Important Interfaces – Replication Scenario

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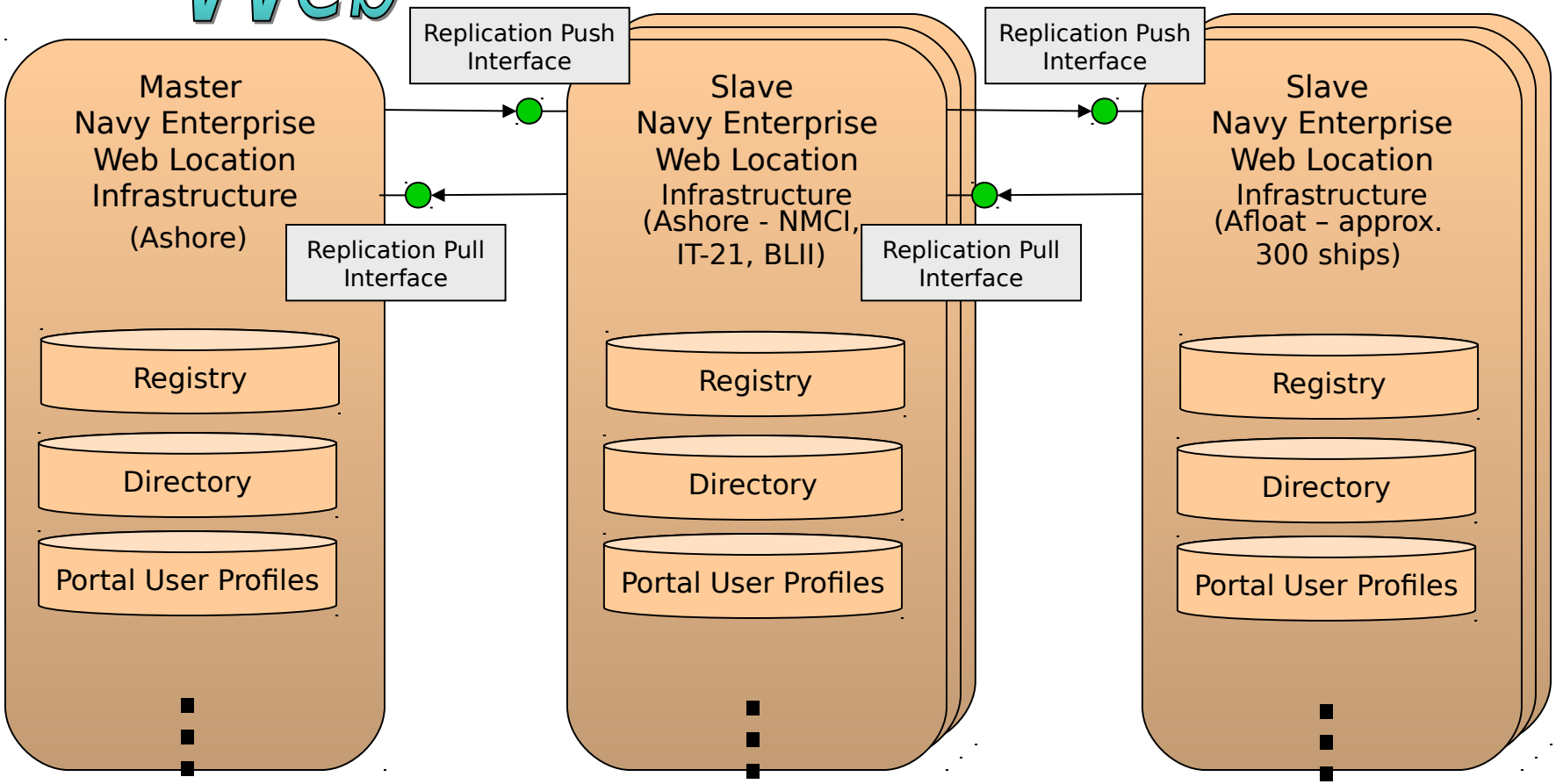

Synchronization (rather than replication) is desired if appropriate and available.

Important Interface Standards – Replication Scenario

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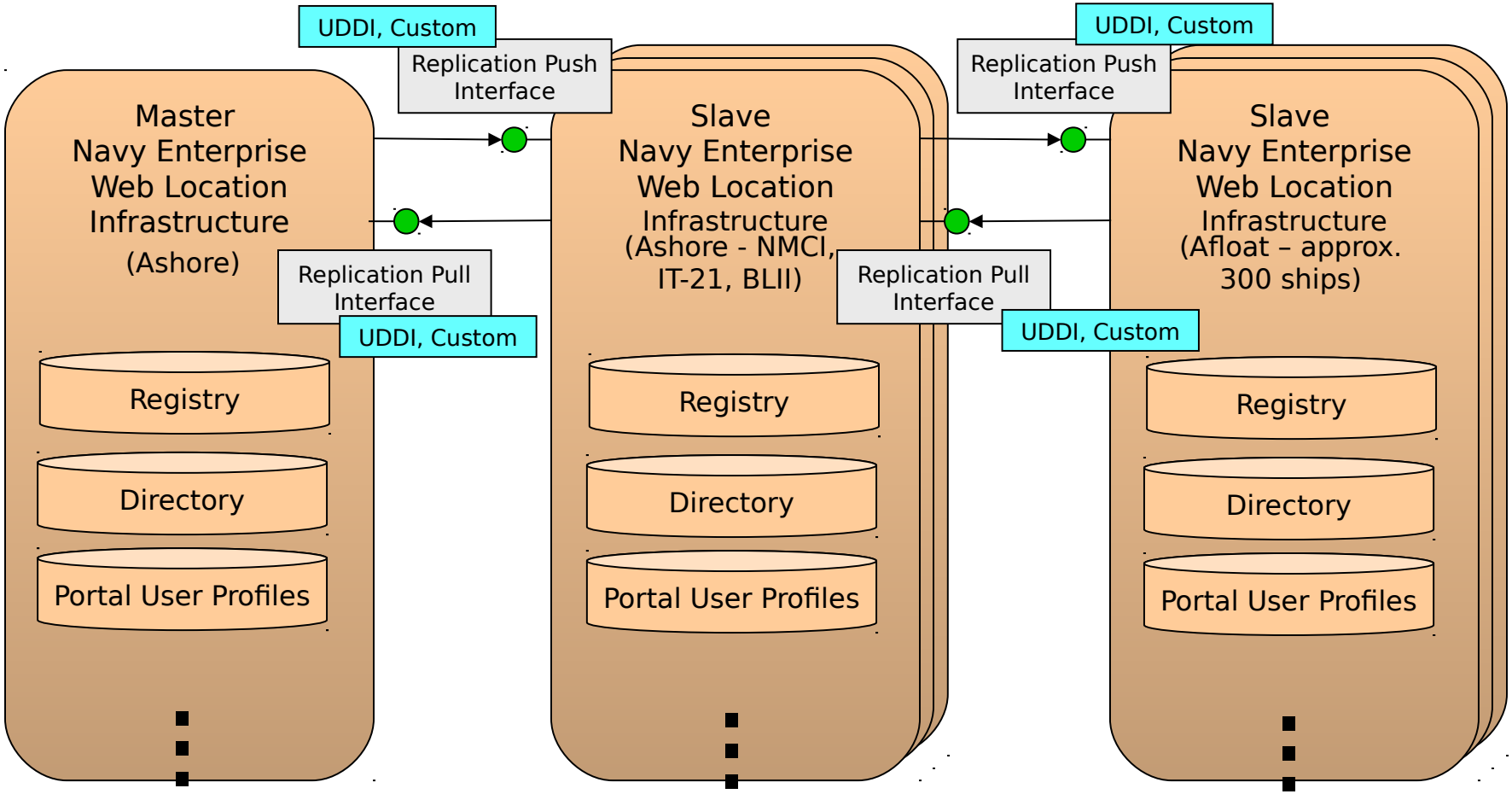

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Questions?